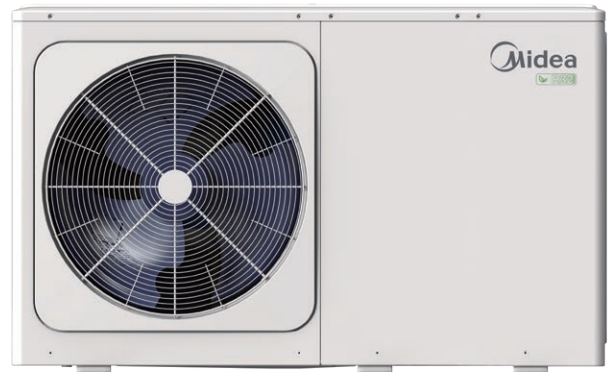


Midea



The certifications are estimated to be available in the end of June.

M thermal Arctic R290



Natural refrigerant R290

R290, a highly pure propane, it has zero ODP value, meaning it is no harmful to the ozone layer. The low GWP value further demonstrates its environmental protection characteristics, which provides great support to EU carbon neutra. Thanks to the excellent thermodynamic properties of R290 and the advanced heat pump technology, with only a small amount of R290, M thermal Arctic heat pump shows great performance under cold condition. So it is a modern solution that balances ecological needs with economy performance.



Wide capacity range

Heat pump

Capacity (kW)		4	6	8	10	12	14	16
Power supply	220-240V-1N-50Hz	•	•	•	•	•	•	•
	380-415V-3N-50Hz					•	•	•
Appearance								

Electric heater

Electric heater is an ideal option that balances thermal comfort with economy performance under extreme cold climate. The electric heater with 3-9kW heating capacity can be integrated inside heat pump, which is both a installation space-saving and installation cost-effective solution.



Powerful heating



55°C hot water under -25°C ambient temperature



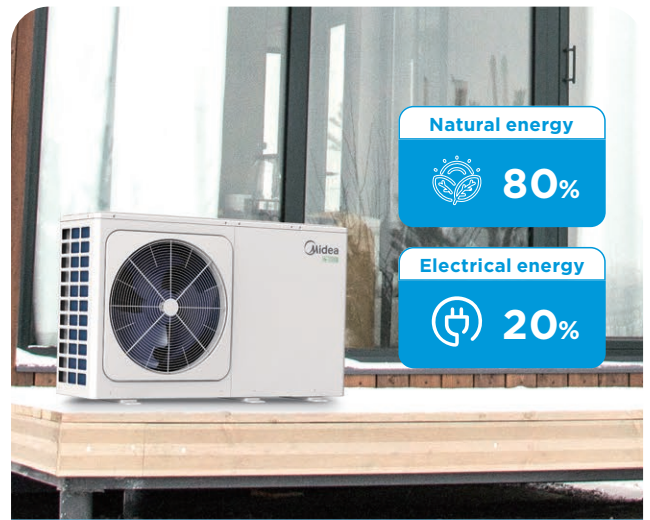
75°C hot water under -10°C ambient temperature

Ideal for replacement

The main energy source for M thermal heat pump is free-of-charge natural energy from the air. With only a small amount of electrical energy, M thermal heat pump can provide heat for your house. Compared with boiler, M thermal heat pump is a more efficient product with environmental protection. On the other hand, the powerful heating capacity of providing 75°C hot water makes it suitable for replacing or retrofitting the current heat source..



Traditional boiler heating



Heat pump heating

The data is only applied for some models under A7W35, which is for understanding and reference only. The result may vary depending on different products. Please refer to the specification for more details.

High reliability

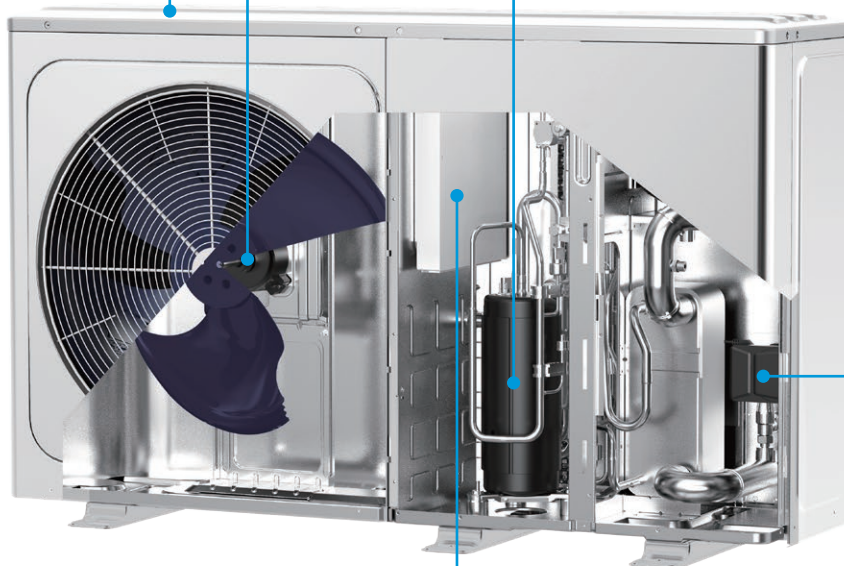
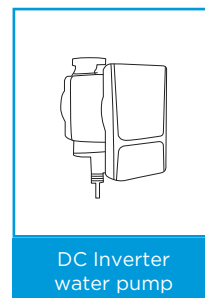
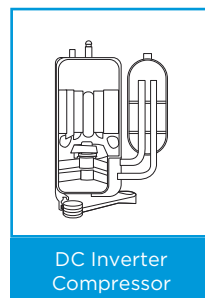
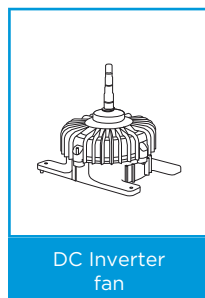
R290 M thermal heat pump adopts well-known brand components and advanced manufacturing processes to ensure product reliability. It is worth mentioning that, in order to let users at ease with the use of R290 heat pump, the electric control system adopts hermetic design to further improve the overall reliability.

1. Advanced manufacturing technology



2. All DC Inverter components

DC Inverter



3. Hermetic electric control box

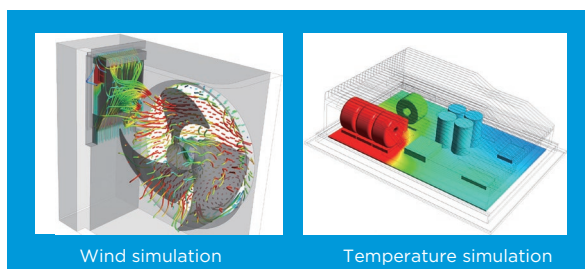
The picture is for reference only, please refer to the actual product.



- Excellent sealability

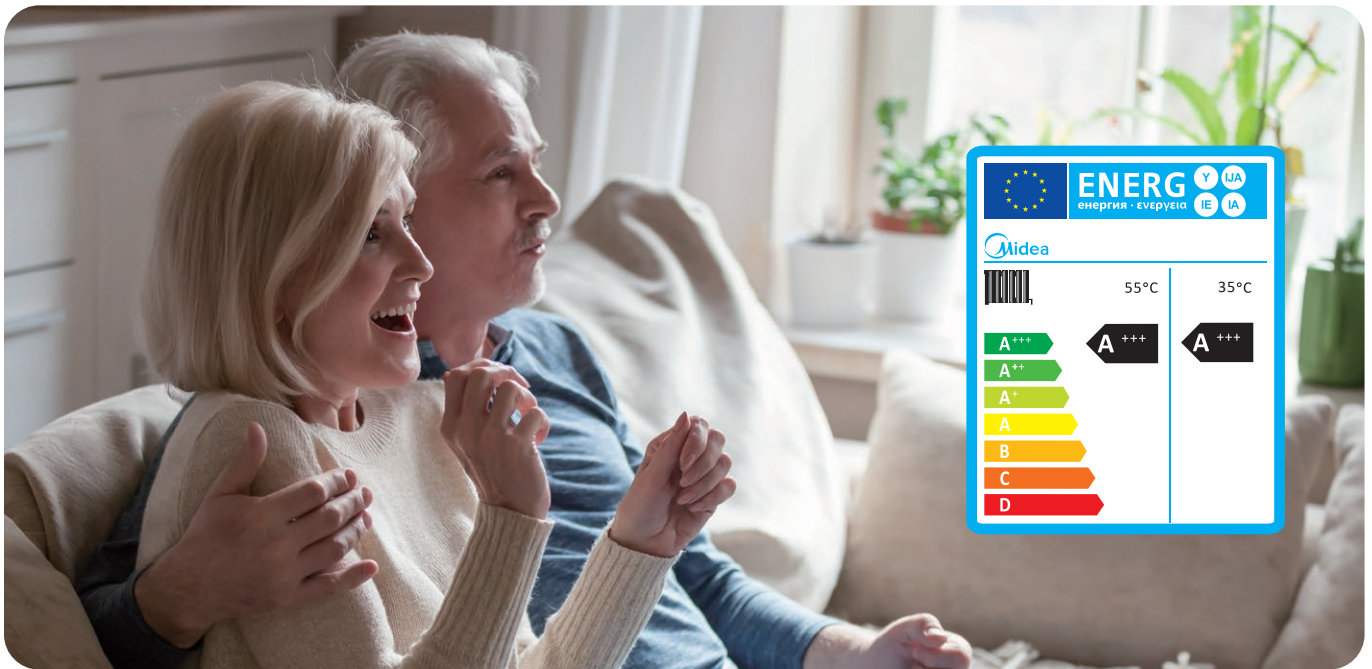
Thanks to the special air flue design and multiple simulations, the heat dissipation rate of electric control system has been greatly improved, which provides a strong support for heat pump to run stably under -25°C ~ 46°C wide ambient temperature range

- Explosion-proof design



High efficiency

Energy efficiency label indicates the energy efficiency level and performance data of heat pump. The purpose of energy efficiency label is to provide necessary information for users to make purchase decisions, so as to help users to choose high energy efficiency and energy-saving products. With the help of all DC inverter technology, R290 M thermal Arctic Series reaches the EU Energy Efficiency A+++ Level*, which ensures users can get a better experience at lower cost.



* The result may vary depending on different products, please refer to the specification for more details.

User friendly controller

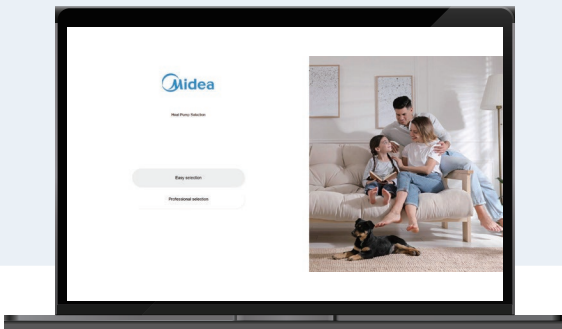


- Color screen
- Intuitive interface
- Touch-key design
- Liquid crystal display
- Built-in Wifi module
- Modbus protocol
- APP control
- Non-polarized wiring connection

IOT tools

Heat pump selection

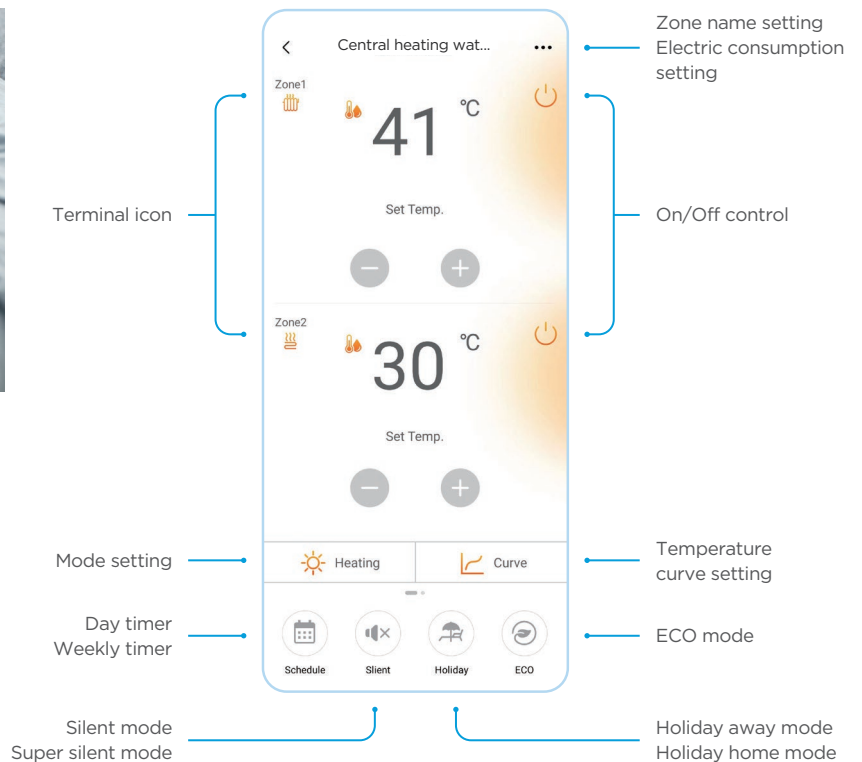
- Website design
- Professional selection version for distributor (Eurovent certification)
- Easy selection version for end-user
- Quick selection
- System configuration
- Energy consumption comparison

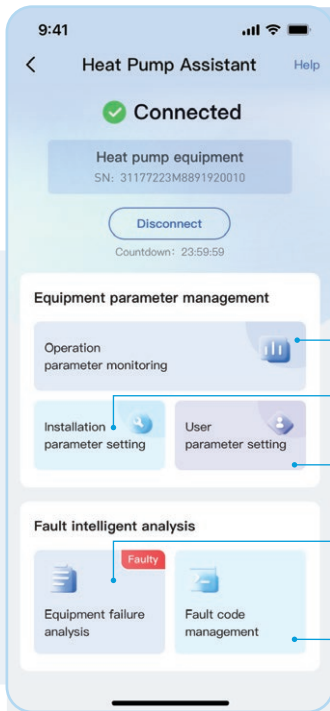


MsmartHome APP



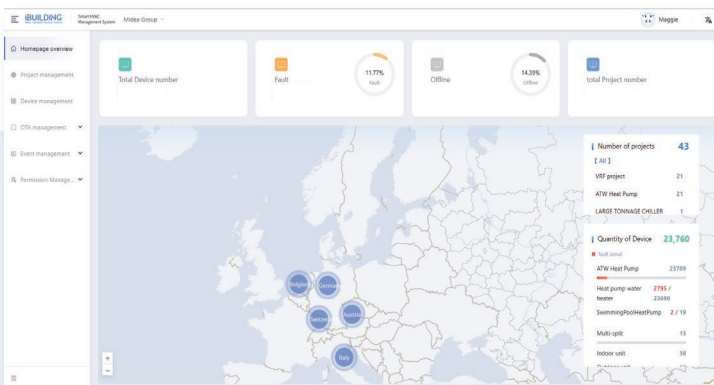
- Designed for end-user
- Easy setting
- Monitor unit status and energy consumption
- Convenient remote control





- Designed for professional user
 - For installation or after-service
 - Offering a range of functions for commissioning, monitoring and diagnosis
- Easily access the status and data of unit remotely
 - Parameter trend curve display
 - Parameters adjustment while installing or after-serving
 - Manage customer's setting
 - Monitor unit status and history error codes
 - Prepare for service visits by investigating specific error codes
 - Providing all error codes meaning and solutions

Intelligent HVAC Management System (Estimate launched in the end of May)



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- Designed for distributor and partner
- Access information about installation, maintenance record and repair record
- Remotely monitor systems status and data from a single, customized dashboard

Note: All the interface changes from time to time as it is updated and may change slightly vary from those in this document.

Specifications(Draft)

Model			MHC-V4WD2N7	MHC-V6WD2N7	MHC-V8WD2N7	MHC-V10WD2N7	MHC-V12WD2N7	MHC-V14WD2N7	MHC-V16WD2N7	MHC-V12WD2RN7	MHC-V14WD2RN7	MHC-V16WD2RN7
Power supply			220-240V -50Hz	220-240V -50Hz	220-240V -50Hz	220-240V -50Hz	220-240V -50Hz	220-240V -50Hz	220-240V -50Hz	380-415V- 3N-50Hz	380-415V- 3N-50Hz	380-415V- 3N-50Hz
Cooling (A35W18)	Capacity	W	4500	6500	8300	10000	12000	14000	16000	12000	14000	16000
	EER	/	5.5	5.1	5.15	4.75	4.5	4.2	3.9	4.5	4.2	3.9
Cooling (A35W7)	Capacity	W	4700	6800	7500	8900	11500	12700	14000	11500	12700	14000
	EER	/	3.65	3.1	3.45	3.25	3.05	2.9	2.75	3.05	2.9	2.75
Heating(A7W35)	Capacity	W	4500	6200	8400	10000	12000	14000	15000	12000	14000	15000
	COP	/	5.15	4.9	5	4.7	4.8	4.5	4.4	4.8	4.5	4.4
Heating(A7W45)	Capacity	W	4500	6400	8200	10000	12000	14000	15000	12000	14000	15000
	COP	/	4.05	3.8	3.85	3.65	3.7	3.5	3.35	3.7	3.5	3.35
Heating(A7W55)	Capacity	W	4600	6200	7800	9500	12000	14000	15000	12000	14000	15000
	COP	/	3.2	3.1	3.2	3.05	3.1	3	2.85	3.1	3	2.85
Heating(A2W35)	Capacity	W	4400	5600	7100	8200	10700	11700	12800	10700	11700	12800
	COP	/	4.1	3.9	3.85	3.65	3.5	3.35	3.2	3.5	3.35	3.2
Heating(A-7W35)	Capacity	W	4500	5900	7000	8000	10000	11500	12700	10000	11500	12700
	COP	/	3.1	2.95	3	2.85	2.8	2.7	2.5	2.8	2.7	2.5
SCOP	Average climate, W35	/	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Average climate, W55	/	A++	A++	A+++	A+++	A++	A++	A++	A++	A++	A++
Net dimension(W*H*D)		mm	1295*718*426	1295*718*426	1385*865*523	1385*865*523	1385*865*523	1385*865*523	1385*865*523	1385*865*523	1385*865*523	1385*865*523
Packing dimension(W*H*D)		mm	1375*885*475	1375*885*475	1465*1035*560	1465*1035*560	1465*1035*560	1465*1035*560	1465*1035*560	1465*1035*560	1465*1035*560	1465*1035*560
Erp sound power level		dB	55	58	59	60	65	65	68	65	65	68
Refrigerant	Type/GWP	/	R290/3	R290/3	R290/3	R290/3	R290/3	R290/3	R290/3	R290/3	R290/3	R290/3
	Charge	kg	0.7	0.7	1.1	1.1	1.25	1.25	1.25	1.25	1.25	1.25
Operating ambient temperature	Cooling	C	-5 - 46	-5 - 46	-5 - 46	-5 - 46	-5 - 46	-5 - 46	-5 - 46	-5 - 46	-5 - 46	-5 - 46
	Heating	C	-25 - 35	-25 - 35	-25 - 35	-25 - 35	-25 - 35	-25 - 35	-25 - 35	-25 - 35	-25 - 35	-25 - 35
	DHW	C	-25 - 46	-25 - 46	-25 - 46	-25 - 46	-25 - 46	-25 - 46	-25 - 46	-25 - 46	-25 - 46	-25 - 46
Water setting temperature	Cooling	C	5 - 25	5 - 25	5 - 25	5 - 25	5 - 25	5 - 25	5 - 25	5 - 25	5 - 25	5 - 25
	Heating	C	25 - 75	25 - 75	25 - 75	25 - 75	25 - 75	25 - 75	25 - 75	25 - 75	25 - 75	25 - 75
	DHW	C	20 - 70	20 - 70	20 - 70	20 - 70	20 - 70	20 - 70	20 - 70	20 - 70	20 - 70	20 - 70

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Ver. 202305V1

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